

Special Issue

Advances in Hyperspectral Imaging, Sensing and Its Applications: Precision Agriculture and Fire Prevention

Message from the Guest Editors

Hyperspectral imaging collects and processes information from across the electromagnetic spectrum. The goal of hyperspectral imaging is to obtain the spectrum for each pixel in the image of a scene, with the purpose of finding objects, identifying materials, or detecting processes. The rapid development of remote sensing has made it possible to study environmental processes and changes in agriculture and also to provide important assistance in relevant practices. The goal of this Special Issue is to collect the latest developments in the application fields of precision agriculture and fire preventions. Both these two contexts were traditionally on-field tests for computer vision-based algorithms and methodologies. With the growing availability of hyperspectral sensors—that are more effective compared to multispectral remote ones—the approach to fire prevention and precision agriculture is quite different, providing an unexpected and powerful support to workers. Papers on the latest research challenges, case studies and on-field applications, limitations, and advantages of different platforms and sensors as well as future perspectives are welcomed.

Guest Editors

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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